1. Let $f(x) = x^5 - 3x^3 + 1$.

Use the bisection method to find an interval of length $\frac{1}{32}$ that contains the root of f(x) that lies between x = 1 and x = 2.

(b)
$$\lim_{x \to 3} \frac{f(x) - f(3)}{x - 3}$$

(c)
$$\lim_{x \to a} \frac{f(x) - f(a)}{x - a}$$
 where *a* is any fixed real number

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